APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/775,274	01/31/2001	Shai Mohaban	60002-0505	7220

29989   7590   12/28/2004

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EXAMINER
MILLS, DONALD L

ART UNIT	PAPER NUMBER
2662	

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO 90C (Rev 10/03)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>20 August 2004</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-28 and 31-35* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *15 and 21* is/are allowed.

6)☒ Claim(s) *1-14, 16-20, 22-28 and 31-35* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

2.   Claims 1-4, 7-11, 28, and 31-35 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Goldberg et al. (US 6,389,038 B1), hereinafter referred to as Goldberg, in

view of O'Dowd (US 5,235,595).

Regarding claims 1, 31, and 33-35, Goldberg discloses a method for combing packets

into a SuperPacket to improve the utilization of a channel, which comprises:

Aggregating two or more media packets from the two or more concurrent calls

originating from one or more source end points into an aggregated media payload (Referring to

Figure 3, MUX **230** combines the packets and sends them as a single larger packet containing the

voice for all 25 channels, supporting multiple concurrent calls from the endpoints. See column

3, lines 49-51.)

Re-packetizing the aggregated media payload using a single aggregated header to form

an aggregated media packet (Referring to Figure 3, each superpacket contains 8 control bytes.

see column 4, line 51.)

Forwarding the aggregated media packet to a next hop in the packet-switched network

(Referring to Figure 3, MUX **230** forwards the superpacket to router **210**.)

Goldberg does not disclose *forwarding in response to a timer reaching a non-zero maximum allowed delay time value.*

O'Dowd teaches a packet switch which comprises a hold FIFO **104** implemented as 16-bit multilevel pipeline registers having a variable delay of between one and four cycles (timer reaching a non-zero maximum allowed delay) (Referring to Figure 5 and column 15, lines 14-17.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the delay FIFO of O'Dowd in the system of Goldberg. One of ordinary skill in the art at the time the invention was made would have been motivated to do so in order to provide a contention free media while an outgoing packet is being transmitted.

Regarding claim 2, the primary reference further teaches *de-aggregating the aggregated media payload for one or more destination endpoints by separating the aggregated media payload to result in creating and sending restored copies of the two or more media packets, each media packet corresponds to one of the two or more concurrent calls* (Referring to Figure 3, MUX **230** disassembles SuperPackets, which results in sending the restored packets which are the calls placed by the endpoints. See column 5, lines 42-43.)

Regarding claim 3, the primary reference further teaches *one or more headers of each media packet* (Referring to Figure 3, each UDP/IP packet has its own UDP/IP header. See column 3, line 10.)

Regarding claim 4, the primary reference further teaches *the two or more media packets are Real-Time protocol (RTP) packets* (Referring to Figure 3, the packets are voice over IP packets. See column 2, lines 63-64.)

Regarding claim 7, the primary reference further teaches *forming the aggregated media payload according to an aggregation protocol for aggregating the two or more media packets* (Referring to Figure 3, each SuperPacket contains 8 control bytes, which contains a 4 bit sequence number for frame loss detection. See column 4, lines 51-53.)

Regarding claim 8, the primary reference further teaches *forming the aggregated media payload based on an aggregated media packet format for each aggregated media packet wherein the aggregated media packet format comprises a version field indicating a version of the aggregation protocol* (Referring to Figure 3, two bits per channel of the overhead indicate the number of regular packets that are consolidated into the SuperPacket. See column 4, lines 55-56.)

Regarding claim 9, the primary reference further teaches *forming the aggregated media payload based on an aggregated media packet format for each aggregated media packet wherein the aggregated media packet format comprises a placeholder field that reserves packet space for future use* (Referring to Figure 3, 4 bits are reserved of the SuperPacket header. See column 4, line 53.)

Regarding claim 10, the primary reference further teaches *forming the aggregated media payload based on an aggregated media packet format for each aggregated media packet wherein the aggregated media packet format comprises a sequence number field that is incremented for each aggregated media packet and is used to detect media packet loss* (Referring to Figure 3, the first 4 bytes of the SuperPacket contain a 4 bit sequence number for frame loss detection. See column 4, lines 51-53.)

Regarding claim 11, the primary reference further teaches *forming the aggregated media payload based on an aggregated media packet format for each aggregated media packet wherein the aggregated media packet format comprises a trunk ID field that uniquely identifies a corresponding trunk* (Referring to Figure 3, each UDP/IP packet has its own UDP/IP header with a destination address. See column 3, lines 10-11.)

Regarding claim 28, the primary reference further teaches *the two or more media packets are received while traversing a common sub-route* (Referring to Figure 3, the packets are routed to MUX **230** traversing the same link from router **210**.)

Regarding claim 31, as explained above in the rejection of claim 1, Goldberg and O'dowd disclose all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose *transmitting the aggregated media packet when a maximum allowed delay time value is reached.*

Goldberg teaches combining packets into a SuperPacket and sending them out immediately (See column 7, lines 19-20.) O'Dowd teaches a packet switch which comprises a hold FIFO **104** implemented as 16-bit multilevel pipeline registers having a variable delay of between one and four cycles (timer reaching a non-zero maximum allowed delay) (Referring to Figure 5 and column 15, lines 14-17.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the delay FIFO of O'Dowd in the system of Goldberg. One of ordinary skill in the art at the time the invention was made would have been motivated to do so in order to provide a contention free media while an outgoing packet is being transmitted.

Regarding claim 32 as explained above in the rejection of claim 1, Goldberg and O'dowd

disclose all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose *using the maximum allowed delay time value for forwarding*

the aggregated media packet; starting a count down for the maximum allowed delay time value

when a first media packet arrives for aggregation; and aggregating subsequent media packets

that arrive before the maximum allowed delay time value is reached.

Goldberg teaches combining packets into a SuperPacket and sending them out

immediately (See column 7, lines 19-20.) O'Dowd teaches a packet switch which comprises a

hold FIFO **104** implemented as 16-bit multilevel pipeline registers having a variable delay of

between one and four cycles (timer reaching a non-zero maximum allowed delay) (Referring to

Figure 5 and column 15, lines 14-17.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the delay FIFO of O'Dowd in the system of Goldberg. One of ordinary

skill in the art at the time the invention was made would have been motivated to do so in order to

provide a contention free media while an outgoing packet is being transmitted.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

4.   Claims 5, 12, 14, 16, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Goldberg et al. (US 6,389,038 B1), hereinafter referred to as Goldberg, in view of O'Dowd

(US 5,235,595), further in view of Vargo et al. (US 6,477,164 B1), hereinafter referred to as

Vargo.

        Regarding claim 5 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further teaches

encapsulating the two or more segments with the single aggregated header (Referring to Figure

3, packets are combined into a superpacket which contains 8 control bytes. see column 4, line

51.)

        Goldberg odes not disclose *compressing an IP header and a UDP header of each RTP*

packet to form a corresponding uncompressed RTP segment.

        Vargo teaches creating a transmux voice packet **144** by striping off the destination

transmux address **308** from the gateway subpackets **302.**

        It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the real-time data transmission of Vargo in the system of Vargo. One of

ordinary skill in the art would have been motivated to do so in order to minimize the

transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added

benefit is the reduction in discontinuous and choppy sounding conversations.

        Regarding claim 12 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further teaches *a*

context ID field indicating a session context ID for the segment (Referring to Figure 3, the

UDP/IP has its own UDP/IP header which by definition comprises an 8-bit type of service field.)

Goldberg does not disclose *forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time Protocol segment of the two or more media packets.*

Vargo teaches creating a transmux voice packet **144** by striping off the destination transmux address **308** from the gateway subpackets **302.**

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the real-time data transmission of Vargo in the system of Vargo. One of ordinary skill in the art would have been motivated to do so in order to minimize the transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added benefit is the reduction in discontinuous and choppy sounding conversations.

Regarding claim 14 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further teaches *the two or more media packets comprising a placeholder field for future use* (Referring to Figure 3, 4 bits are reserved of the SuperPacket header. See column 4, line 53.)

Goldberg does not disclose *forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol segment of the two or more media packets.*

Vargo teaches creating a transmux voice packet **144** by striping off the destination transmux address **308** from the gateway subpackets **302.**

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the real-time data transmission of Vargo in the system of Vargo. One of ordinary skill in the art would have been motivated to do so in order to minimize the

transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added

benefit is the reduction in discontinuous and choppy sounding conversations.

Regarding claim 16 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses

including a full length field containing a length of a Real-Time Protocol packet that corresponds

to the Real-Time Protocol Segment (Referring to Figure 3, the UDP/IP has its own UDP/IP

header which by definition comprises data field which corresponds to the length of the packet

payload.)

Goldberg does not disclose *forming the aggregated media payload based on an*

uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol

segment of the two or more media packets.

Vargo teaches creating a transmux voice packet **144** by striping off the destination

transmux address **308** from the gateway subpackets **302.**

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the real-time data transmission of Vargo in the system of Vargo. One of

ordinary skill in the art would have been motivated to do so in order to minimize the

transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added

benefit is the reduction in discontinuous and choppy sounding conversations.

Regarding claim 18 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses *a*

padding field that aligns an end of the Real-Time Protocol segment with a next four-byte

boundary (Referring to Figure 3, each superpacket contains 8 control bytes which separates each

SuperPacket. see column 4, line 51.)

Goldberg does not disclose *forming the aggregated media payload based on an*

uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol

segment of the two or more media packets.

Vargo teaches creating a transmux voice packet **144** by striping off the destination

transmux address **308** from the gateway subpackets **302.**

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the real-time data transmission of Vargo in the system of Vargo. One of

ordinary skill in the art would have been motivated to do so in order to minimize the

transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added

benefit is the reduction in discontinuous and choppy sounding conversations.

5.   Claims 6, 13, 17, 19, 20, and 22-27 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Goldberg et al. (US 6,389,038 B1), hereinafter referred to as Goldberg, in

view of O'Dowd (US 5,235,595), further in view of Koodli (US 6,608,841 B1).

Regarding claim 6 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further teaches

encapsulating the two or more segments with the single aggregated header (Referring to Figure

3, packets are combined into a superpacket which contains 8 control bytes. see column 4, line

51.)

Goldberg does not disclose *compressing an IP header, a UDP header, and an RTP header of each RTP packet to form a corresponding compressed RTP segment.*

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header-overhead resulting in a compressed or uncompressed RTP datagram (See column 6, lines 33-34.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg. One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 13 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose *forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol segment of the two or more media packets that comprises a compression bit indicating whether the uncompressed Real-Time Protocol segment is uncompressed.*

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in an uncompressed or compressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg. One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 17 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose *forming the aggregated media payload based on an*

uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol

segment of the two or more media packets that comprises a Real-Time Protocol payload and a

Real-Time Protocol header corresponding to a Real-Time Protocol packet that in turn

corresponds to the uncompressed Real-Time Protocol segment.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header

overhead resulting in an uncompressed or compressed RTP segment as indicated by the packet

type field which identifies the type of the packet, compressed header or full header (See column

10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of

VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 19 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses *a*

context ID field indicating a session context ID for the Real-Time Protocol segment (Referring to

Figure 3, the UDP/IP has its own UDP/IP header which by definition comprises an 8-bit type of

service field.)

Goldberg does not disclose *forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets.*

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg. One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 20 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose *forming the aggregated media payload based on an compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets that comprises a Real-Time Protocol header extension bit indicating whether a Real-Time Protocol header extension appears in the compressed Real-Time protocol segment.*

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of

VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 22 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses

comprising a Real-Time Protocol header marker bit (Referring to Figure 3, each SuperPacket

contains 8 control bytes, the first bit indicating the beginning of the control byte sequence. See

column 4, line 51.)

Goldberg does not disclose *forming the aggregated media payload based on a*

compressed Real-Time Protocol segment format for each compressed Real-Time protocol

segment of the two or more media packets.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header

overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet

type field which identifies the type of the packet, compressed header or full header (See column

10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of

VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 23 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses

including a full length field containing a length of a Real-Time Protocol packet that corresponds to the Real-Time Protocol Segment (Referring to Figure 3, the UDP/IP has its own UDP/IP header which by definition comprises data field which corresponds to the length of the packet payload.)

Goldberg does not disclose *forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets.*

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg. One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 24 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose *forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets that comprises a sequence number field carrying a Real-Time Protocol header sequence number.*

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header

overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet

type field which identifies the type of the packet, compressed header or full header (See column

10, lines 33-35.) Koodli further teaches a sequence field indicating the Real-Time Protocol

header sequence (See column 10, line 31.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of

VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 25 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose *forming the aggregated media payload based on a*

compressed Real-Time Protocol segment format for each compressed Real-Time protocol

segment of the two or more media packets that comprises a timestamp field carrying a Real-Time

Protocol header timestamp.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header

overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet

type field which identifies the type of the packet, compressed header or full header (See column

10, lines 33-35.) Koodli further teaches a timestamp field which corresponds to a Real-Time

Protocol header timestamp (Refer to Figure 4 and see column 10, line 54.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of

VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 26 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose *forming the aggregated media payload based on a*

compressed Real-Time Protocol segment format for each compressed Real-Time protocol

segment of the two or more media packets that comprises a Real-Time Protocol payload and a

Real-Time Protocol header corresponding to a Real-Time Protocol packet that in turn

corresponds to the compressed Real-Time Protocol segment.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header

overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet

type field which identifies the type of the packet, compressed header or full header (See column

10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of

VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 27 as explained above in the rejection statement of claim 1, Goldberg

discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses *a*

padding field that aligns an end of the Real-Time Protocol segment with a next four-byte

boundary (Referring to Figure 3, each superpacket contains 8 control bytes which separates each

SuperPacket. see column 4, line 51.)

Goldberg does not disclose *forming the aggregated media payload based on a*

compressed Real-Time Protocol segment format for each uncompressed Real-Time protocol

segment of the two or more media packets.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header

overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet

type field which identifies the type of the packet, compressed header or full header (See column

10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of

VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Allowable Subject Matter

6.   Claims 15 and 21 are allowed.

Response to Arguments

7.   Applicant's arguments with respect to claims 1-28 and 31-35 have been considered but

are moot in view of the new grounds of rejection.

Conclusion

8.   Applicant's amendment necessitated the new grounds of rejection presented in this Office

action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is

reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

9.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Donald L Mills whose telephone number is 571-272-3094. The

examiner can normally be reached on 8:00 AM to 4:30 PM. .

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donald L Mills

December 22, 2004

HASSAN KIZOU
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